Att'y Docket: 1544.03

Claim Amendment under 37 CFR 1.121(c)

1. (Currently Amended) A method for producing human *lactoferrin* by using an insect cell comprising the steps of:
(a) combining a transfer vector [[1]] pBacPAK8 with a recombinant plasmid phLf-8 [[2]](that is the same as pT7T3-hLf which has pT7T3 18U backbone, pharmacia and human lactoferrin gene using SalI and HindIII site) to produce a recombinant expression vector pBacLf [[3]](that is the same as pBacPAK-hLf) modified to permit the regulation of a *lactoferrin* gene by a polyhedrin promoter in a vector pBacPAK8;
(b) cotransfecting said recombinant expression vector together with a help vector BacPAK6 viral DNA [[4]] into an insect cell Sf9 [[5]] in a culture medium to produce a recombinant insect cell Sf-Lf [[6]], and producing a recombinant insect virus from said recombinant insect cell resulting from homologous recombination through AcMNPV and AcNPV site; and
(c) producing human *lactoferrin* [[~~from~~]] using said recombinant insect virus [[~~cell sf-Lf 6~~]].

2. (Original) The method of claim 1, wherein said producing a recombinant insect virus step further comprises the step of performing a centrifugal separation of the culture medium containing the recombinant insect cell cultured in the producing step (b) to obtain a progeny virus from the insect cell contained in the upper layer.

3. (Cancelled)

4. (Currently Amended) A recombinant insect virus produced by a method comprising the steps of:
(a) combining a transfer vector [[1]] pBacPAK8 with a recombinant plasmid phLf-8 [[2]] (that is the same as pT7T3-hLf which has pT7T3 18U backbone, pharmacia and human lactoferrin gene using SalI and HindIII site) to produce a recombinant expression vector pBacLf [[3]] (that is the same as pBacPAK-hLf)

modified to permit the regulation of a *lactoferrin* gene by a polyhedrin promoter in a vector pBacPAK8;

(b) cotransfecting said recombinant expression vector together with a help vector BacPAK6 viral DNA [[4]] into an insect cell Sf9 [[5]] in a culture medium to produce and culture a recombinant insect cell Sf-Lf [[6]]; and

(c) producing a recombinant insect virus from said recombinant insect cell Sf-Lf resulting from homologous recombination through AcMNPV and AcNPV site.

5. (Cancelled)

6. (Currently Amended) [[~~The method of claim 5, wherein said~~]] A biological verification method for a recombinant human *lactoferrin*, comprising the steps of:

(a) mixing human *lactoferrin* produced by the method of claim 1 with a pathogenic microorganism selected from the group consisting of *Pseudomonas cepacia, Pseudomonas putida, Salmonella typhimurium, Pseudomonas fluorescence* and *E. coli* 300; and,

(b) measuring anti-bacterial activity of said mixture against the pathogenic microorganism.

Annotated Marked-up Drawings